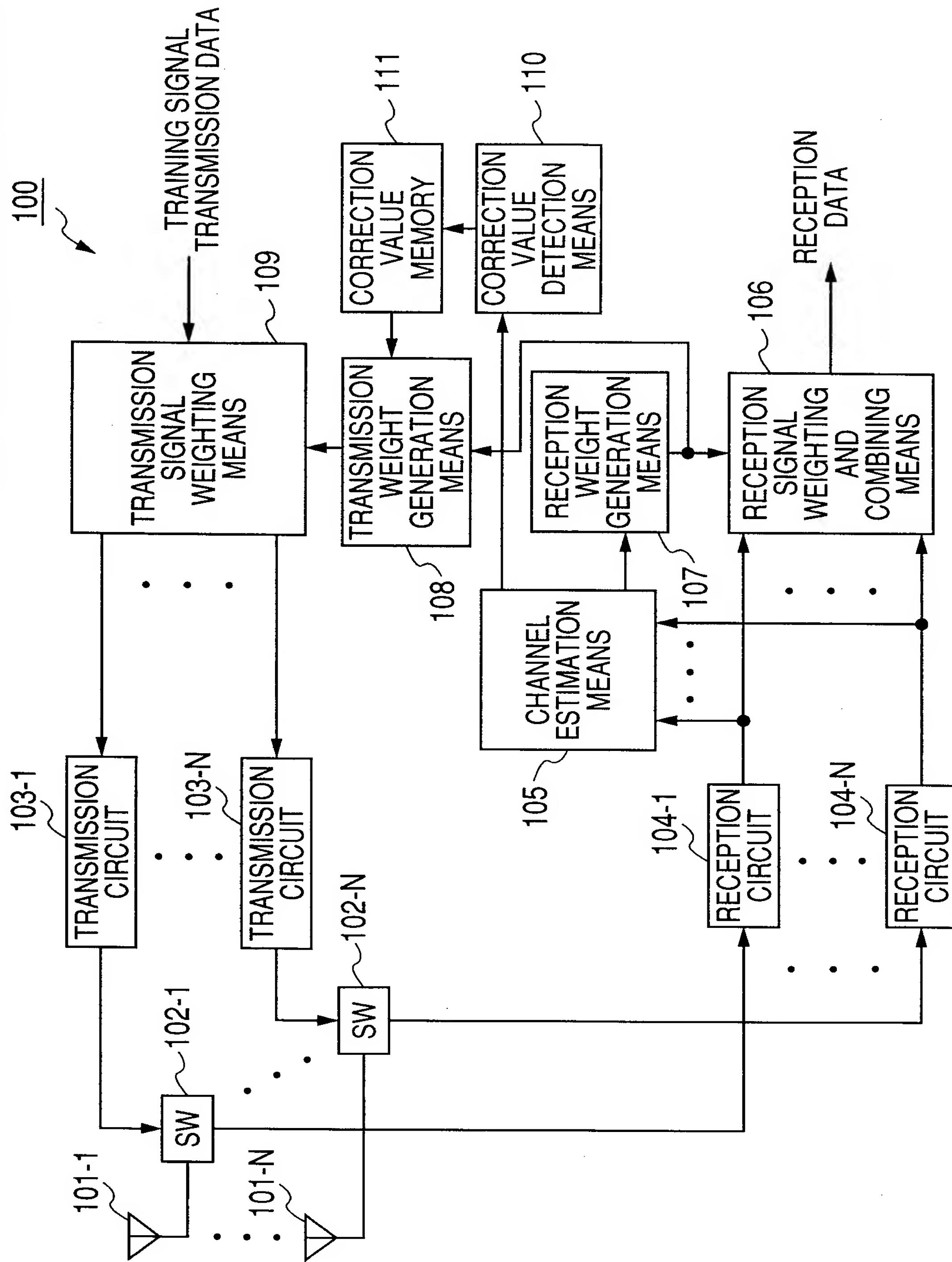
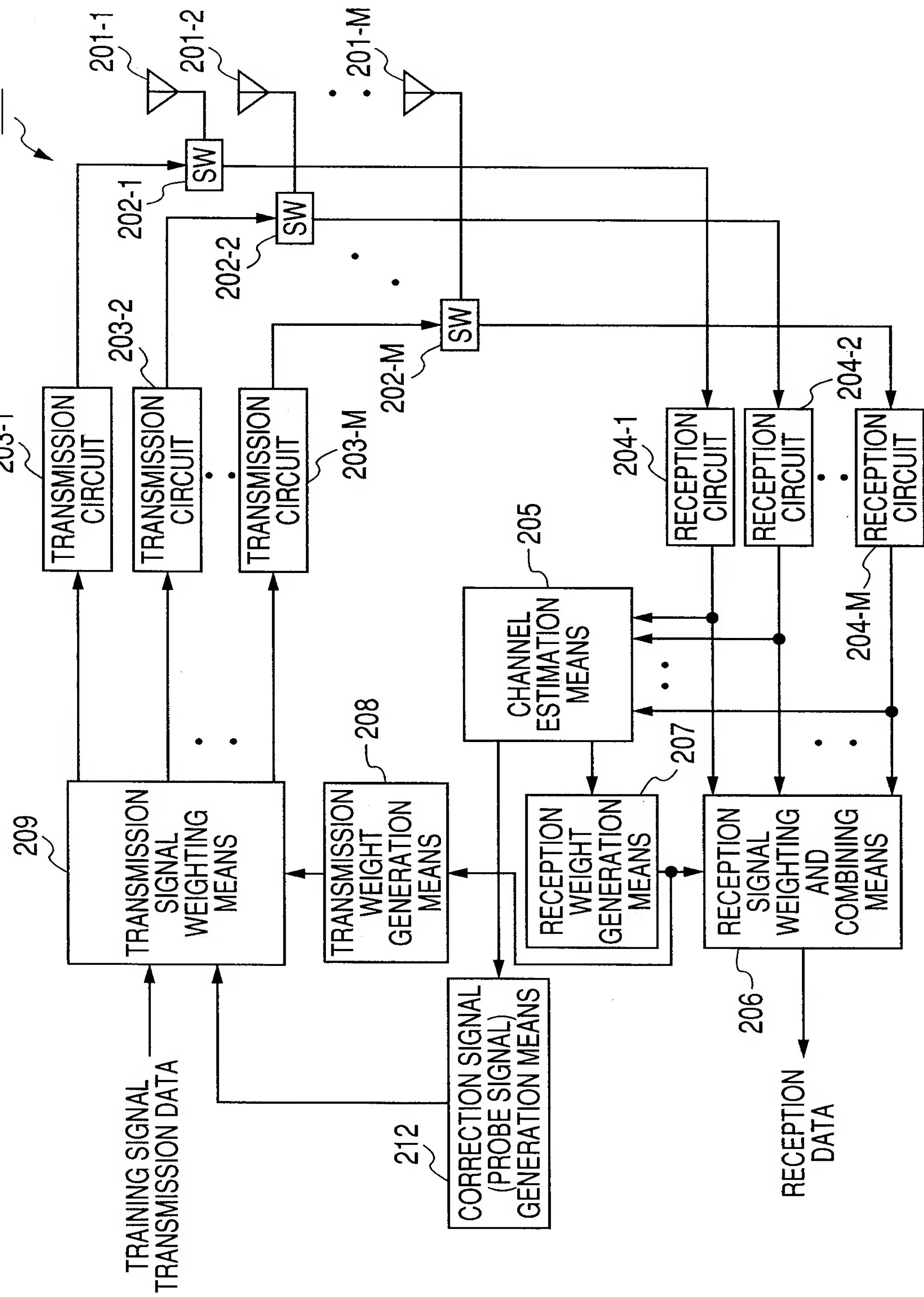


**FIG. 1** WIRELESS COMMUNICATION APPARATUS

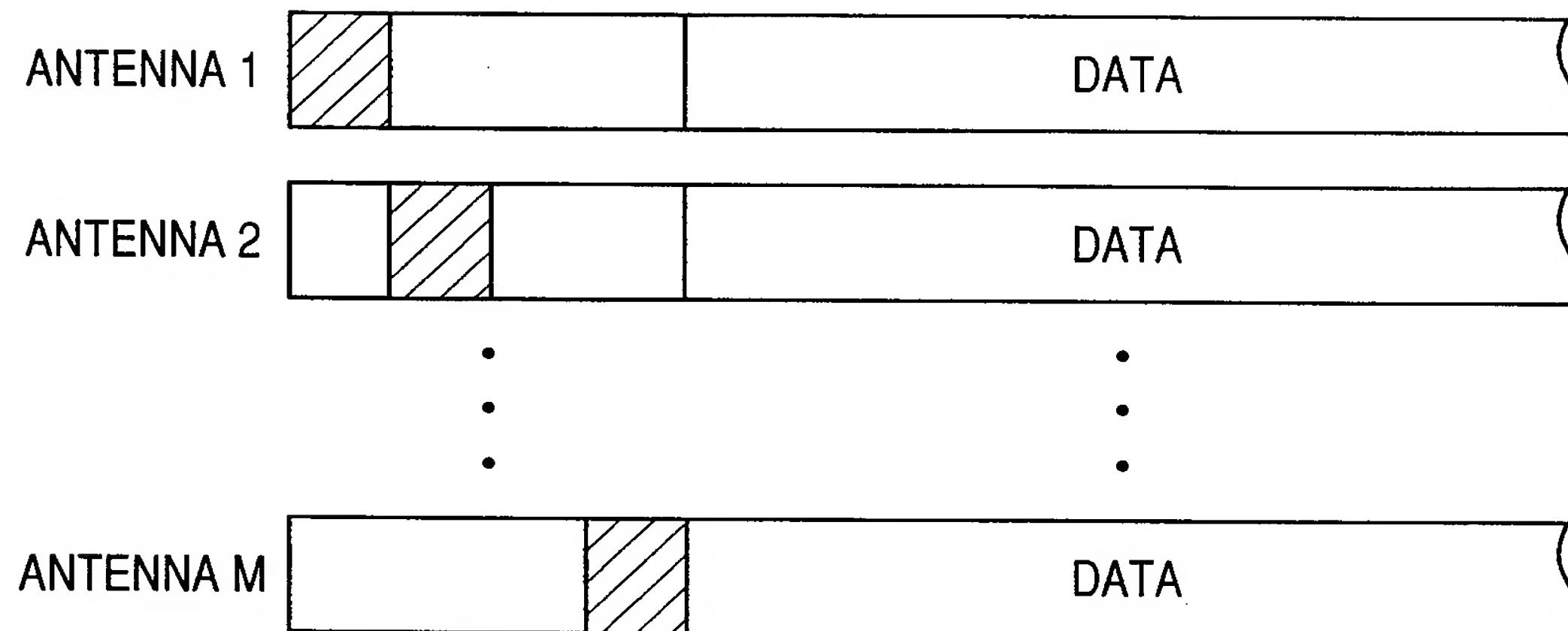


**FIG. 2**  
BASE STATION APPARATUS



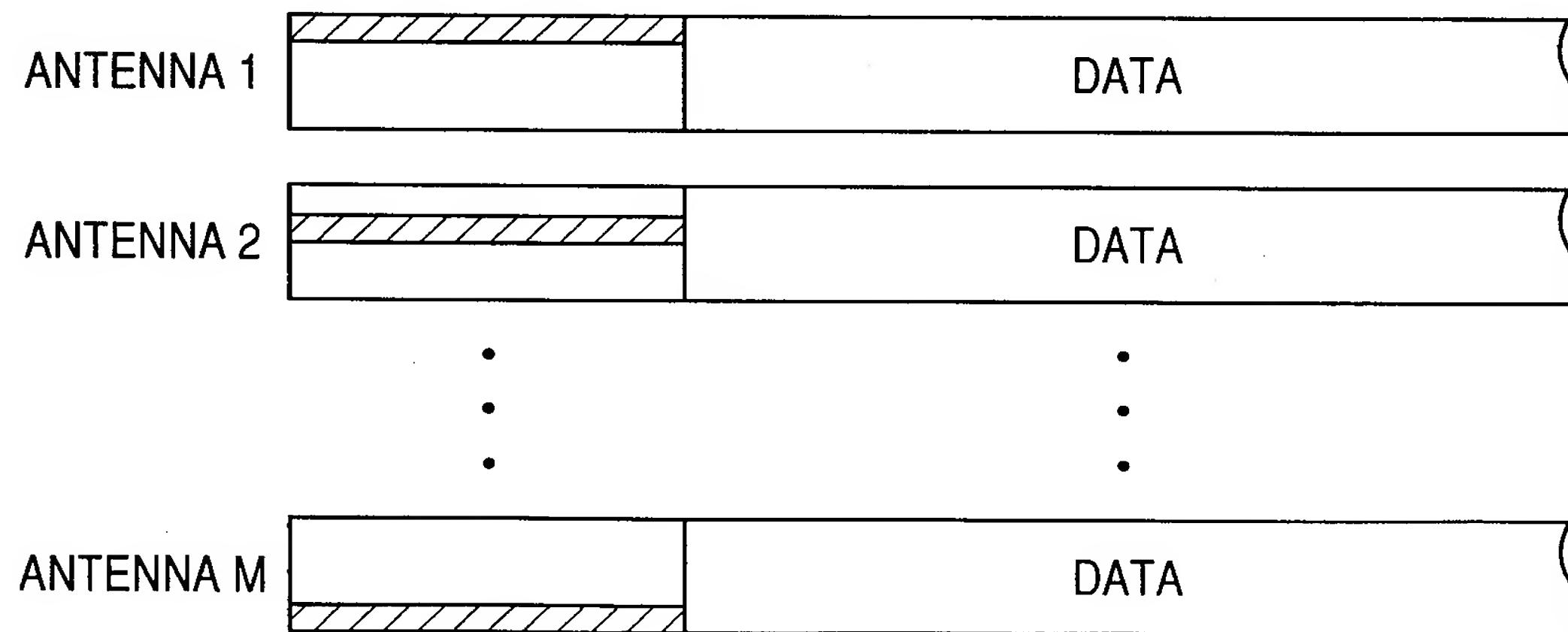
**FIG. 3(a)**

TIME-DIVISION-MULTIPLEXED PILOT SIGNAL



**FIG. 3(b)**

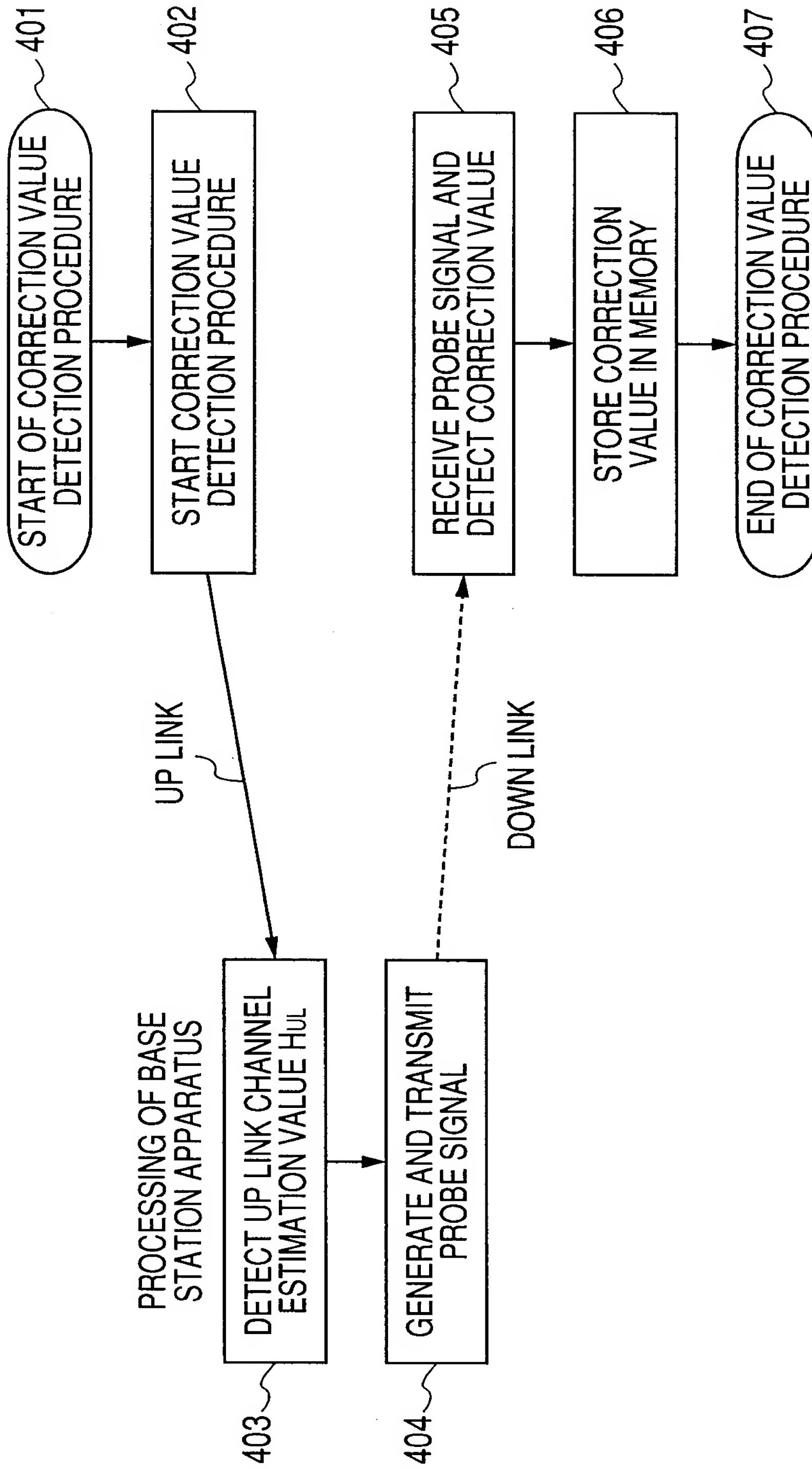
CODE-DIVISION-MULTIPLEXED PILOT SIGNAL



**FIG. 4**

CORRECTION VALUE DETECTION PROCEDURE

PROCESSING OF WIRELESS  
COMMUNICATION APPARATUS



**FIG. 5**

WEIGHT GENERATION PROCEDURE  
IN BASE STATION APPARATUS

PROCESSING OF WIRELESS  
COMMUNICATION APPARATUS

501

GENERATE TRAINING  
SIGNAL USING  
CORRECTION VALUE

502

GENERATE DATA SIGNAL  
WEIGHTED WITH  
TRANSMISSION WEIGHT

5 / 8

TRANSMIT SIGNAL

503

UP LINK

RECEIVE SIGNAL

504

DATA SIGNAL

DETECT CHANNEL  
ESTIMATION VALUE  
OF UP LINK

505

GENERATE  
RECEPTION WEIGHT

506

WEIGHT WITH  
RECEPTION WEIGHT  
AND COMBINE

507

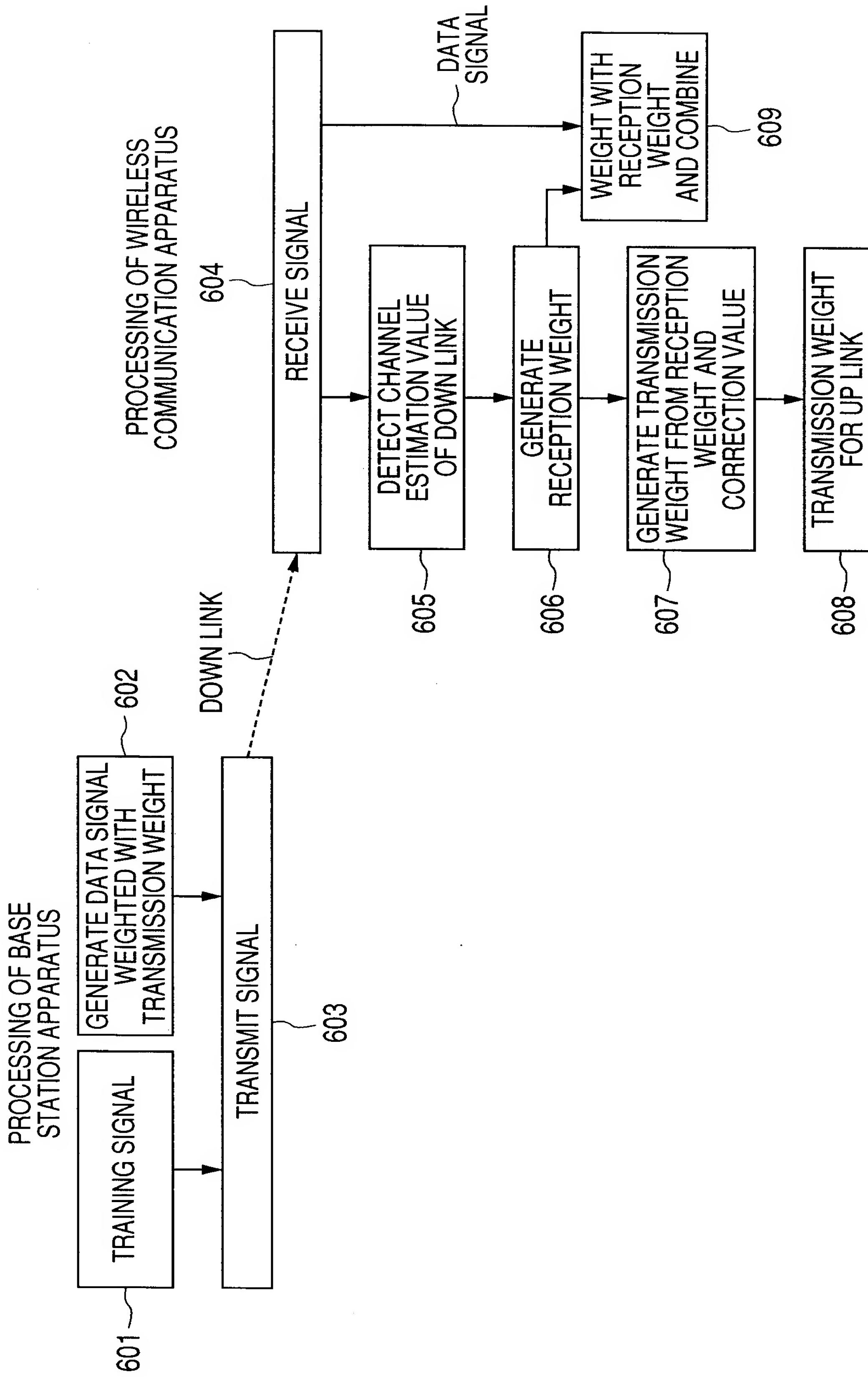
GENERATE  
TRANSMISSION WEIGHT

508

509

TRANSMISSION WEIGHT  
FOR DOWN LINK

**FIG. 6**  
WEIGHT GENERATION PROCEDURE IN WIRELESS COMMUNICATION APPARATUS



**FIG. 7**

WIRELESS COMMUNICATION APPARATUS

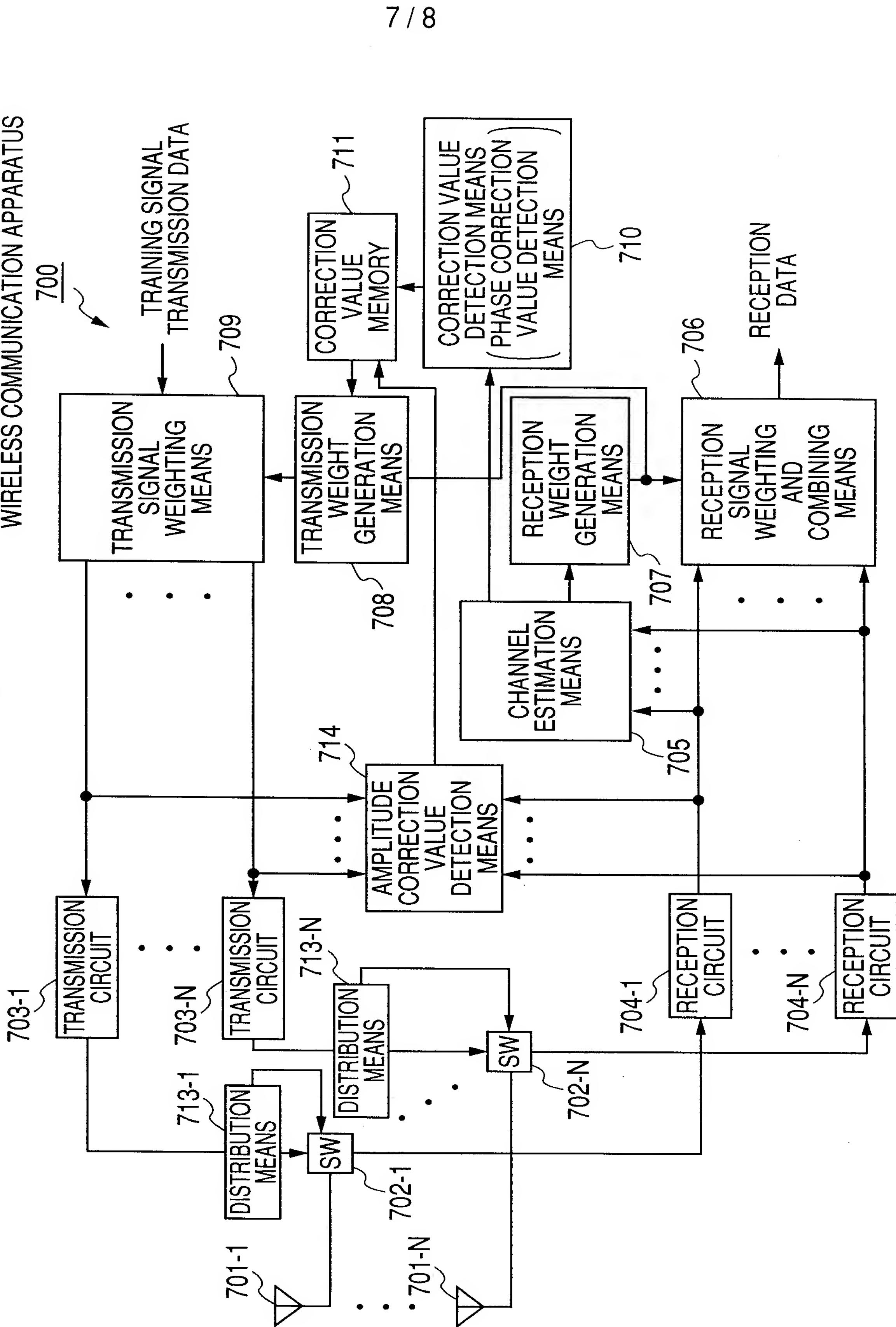


FIG. 8

